

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P238994

Luminaire Tested: **24EN-LD2-74-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-234-34)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-74-UNV-L935-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (308)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6443.7 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

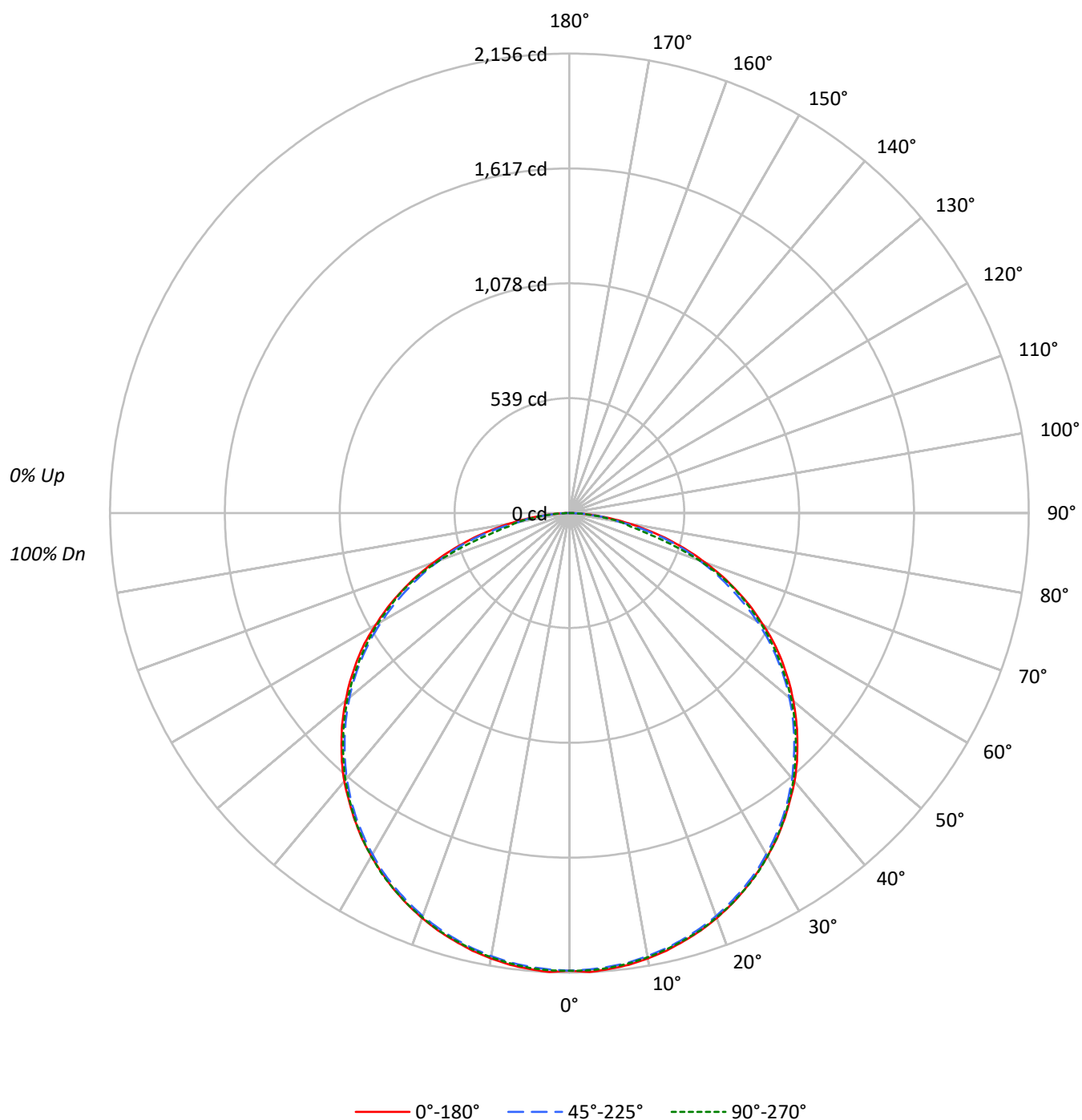
Input Watts (W): 63.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	99	95	106	101	97	94		97	94	91		93	90	88		90	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	70	64	87	77	69	63		74	67	62		71	66	61		69	64	60
4	82	70	61	54	79	68	60	53		66	58	53		63	57	52		61	56	51
5	75	62	53	46	73	61	52	46		59	51	45		57	50	45		55	49	44
6	69	56	47	40	67	55	46	40		53	45	40		51	44	39		50	44	39
7	64	50	42	35	62	50	41	35		48	40	35		47	40	35		45	39	34
8	60	46	37	31	58	45	37	31		44	36	31		43	36	31		41	35	31
9	56	42	34	28	54	42	34	28		40	33	28		39	33	28		38	32	28
10	52	39	31	26	51	38	31	25		37	30	25		36	30	25		35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3289	3289	3289
5°	3302	3285	3293
10°	3300	3283	3292
15°	3296	3281	3290
20°	3296	3281	3292
25°	3292	3276	3292
30°	3288	3269	3288
35°	3285	3263	3280
40°	3287	3252	3271
45°	3278	3231	3254
50°	3269	3211	3240
55°	3257	3178	3211
60°	3217	3118	3184
65°	3152	3020	3133
70°	3039	2912	2906
75°	2860	2733	2310
80°	2517	2137	2197
85°	1988	1870	1727



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	3.2
10°-20°	585.0	9.1
20°-30°	895.1	13.9
30°-40°	1094.1	17.0
40°-50°	1156.2	17.9
50°-60°	1071.2	16.6
60°-70°	839.3	13.0
70°-80°	474.5	7.4
80°-90°	124.9	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1683.5	26.1
0°-40°	2777.6	43.1
0°-60°	5005.0	77.7
0°-90°	6443.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6443.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2147	2147	2147	2147	2147	
5°	2147	2141	2137	2135	2142	204
15°	2079	2071	2069	2068	2075	587
25°	1948	1940	1939	1939	1948	898
35°	1757	1749	1745	1745	1754	1100
45°	1513	1502	1492	1492	1502	1168
55°	1220	1206	1190	1193	1202	1089
65°	870	854	833	844	864	860
75°	483	470	462	412	390	508
85°	113	106	106	101	98	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2147.4	2147.4	2147.4	2147.4	2147.4
2.5°	2155.5	2146.1	2143.4	2140.7	2147.4
5°	2147.4	2140.7	2136.7	2135.3	2142.0
7.5°	2138.0	2129.9	2127.2	2124.5	2131.3
10°	2121.8	2113.8	2111.1	2109.7	2116.5
12.5°	2103.0	2093.6	2092.2	2090.9	2097.6
15°	2078.8	2070.7	2069.3	2068.0	2074.7
17.5°	2053.2	2045.1	2042.4	2041.1	2050.5
20°	2022.2	2014.1	2012.8	2011.4	2019.5
22.5°	1987.2	1979.1	1976.4	1977.8	1985.9
25°	1948.2	1940.1	1938.7	1938.7	1948.2
27.5°	1905.1	1897.0	1897.0	1897.0	1907.8
30°	1859.3	1852.6	1848.5	1849.9	1859.3
32.5°	1812.2	1801.4	1798.7	1800.1	1809.5
35°	1757.0	1748.9	1744.9	1744.9	1754.3
37.5°	1700.4	1692.4	1687.0	1687.0	1696.4
40°	1643.9	1631.8	1626.4	1623.7	1635.8
42.5°	1580.6	1571.2	1559.1	1559.1	1569.8
45°	1513.3	1502.5	1491.8	1491.8	1502.5
47.5°	1444.6	1433.9	1421.7	1421.7	1432.5
50°	1371.9	1361.2	1347.7	1347.7	1359.8
52.5°	1297.9	1285.8	1271.0	1269.6	1281.7
55°	1219.8	1206.3	1190.2	1192.9	1202.3
57.5°	1140.4	1122.9	1106.7	1106.7	1121.5
60°	1050.2	1035.3	1017.8	1020.5	1039.4
62.5°	964.0	945.1	927.6	934.4	950.5
65°	869.7	853.6	833.4	844.2	864.4
67.5°	776.8	759.3	743.2	756.6	766.1
70°	678.6	662.4	650.3	650.3	648.9
72.5°	580.3	565.5	562.8	537.2	521.0
75°	483.3	469.9	461.8	412.0	390.4
77.5°	382.4	378.3	352.7	300.2	293.5
80°	285.4	288.1	242.3	243.7	249.1
82.5°	196.6	192.5	181.8	173.7	171.0
85°	113.1	106.4	106.4	101.0	98.3
87.5°	37.7	41.7	41.7	41.7	43.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)